

What is claimed is:

1. A method to remotely control the electrical pulses supplied to a nerve tissue by an implanted neurostimulator, using a mobile device capable of communicating and exchanging data over a wide area network, comprising the steps
5 of:
 - a) providing an implantable neurostimulator comprising circuitry, at least one lead adapted to be in contact with nerve tissue, and coil for communication;
 - b) providing an external interface means for networking over a wide area network to exchange data, and in communication with said implantable neurostimulator;
 - c) providing software applications means to said mobile device to communicate and exchange said data, to remotely change parameters of said electric pulses provided by said neurostimulator,
10 whereby said remote mobile device controls said implantable neurostimulator.
- 15 2. A method of claim 1, wherein said external interface further comprises an external stimulator inductively coupled to the said implanted stimulator.
- 20 3. A method of claim 1, wherein further said remote mobile device is at least one of a modified PDA/cell phone, a desk top computer, a lap-top computer, a pocket PC/cell phone, a hand-held device.
- 25 4. A method of claim 1, wherein said data exchange is exchange of data relevant to nerve stimulation patients comprising, patient history, nerve stimulation parameters, stimulation schedules, patient reports, patient contact information, patient insurance information, and like.
- 30 5. A method of claim 1, wherein controlling remotely said electric pulses, comprises at least one of monitoring, interrogating, programming, and scheduling said pulses.
6. A method of claim 1, wherein said data exchange and remotely control of electrical pulses supplied to a nerve tissue are for providing therapy for at least one of

neurological, neuropsychiatric, urological, and cardiac disorders, and intractable pain treated by spinal cord stimulation.

7. A method of claim 1, wherein said remote mobile device further
5 comprises software to store, edit, add, download, and upload said data.

8. A method of communicating and exchanging nerve stimulation patient related data, remotely over a wide area network for at least one of monitoring, and programming an implantable nerve stimulation device comprising the steps of:

- 10 a) providing an external interface means for networking over said wide area network;
- b) providing said remote mobile device with means for networking over said wide area network; and
- c) providing software application means for exchanging said related to
15 nerve stimulation patients related data.

9. A method of claim 8, wherein further said implantable nerve stimulation device is adapted to be in contact with a nerve tissue, and comprises an implanted stimulus-receiver module and an implanted pulse generator (IPG) module.

20 10. A method of claim 8, wherein said external interface could be an external stimulator inductively coupled to the said implanted stimulator.

25 11. A method of claim 8, wherein further said remote mobile device is at least one of a modified PDA cell phone, a desk top computer, a lap-top computer, a pocket PC/cell phone.

30 12. A method of claim 8, wherein said data exchange is exchange of data for nerve stimulation patients, comprising patient history, nerve stimulation parameters, stimulation schedules, patient reports, patient contact information, patient insurance information, and like.

13. A method of claim 8, wherein further said mobile device comprises limited number of pre-stored diagnostic and procedures current procedural terminology (CPT) codes for billing, and automatic invoicing, and invoice templates.

5 14. A method of claim 8, wherein further said implanted nerve stimulator device is used for providing therapy for at least one of neurological, neuropsychiatric, urological, and cardiac disorders, and intractable pain treated by spinal cord stimulation.

10 15. A system for at least one of monitoring and programming an implanted neurostimulator device, with a remote device over a wide area network, comprising:

a) said implantable neurostimulator comprising circuitry, at least one lead adapted for providing electrical pulses to the nerve tissue, and a coil for communication;

b) an external interface means for networking over a wide area network and

15 in communication with said implantable neurostimulator;

c) a remote mobile device adapted with means for networking over a wide area network;

d) software applications means for said mobile device, configured for communicating and exchanging data over said wide area network, and to remotely

20 change parameters of said electric pulses provided by said neurostimulator,

whereby said remote mobile device, remotely controls said electrical pulses provided by said implantable neurostimulator.

16. A system of claim 15, wherein further said neurostimulator is utilized for 25 providing therapy for at least one of neurological, neuropsychiatric, urological, and cardiac disorders, and intractable pain treated by spinal cord stimulation.

17. A system of claim 15, wherein said external interface means is adapted to be inductively coupled to said implanted neurostimulator.

30 18. A system of claim 15, wherein said implantable nerve stimulation device further comprises an implanted stimulus-receiver module and an implanted pulse generation module (IPG).

19. A system of claim 15, wherein said external interface means further comprises an external stimulator.

5 20. A system of claim 15, wherein further said remote mobile device is at least one of a modified PDA/cell phone, a desk-top computer, a lap-top computer, an internet ready pocket PC, an internet ready personal digital assistant, and the like.

10 21. A system of claim 15, wherein said data exchange is exchange of data relevant to nerve stimulation patients, comprising patient history, nerve stimulation parameters, stimulation schedules, patient reports, patient contact information, patient insurance information, and the like.

15 22. A system of claim 15, wherein further said remote mobile device can store, edit, add, download, and upload said data.

20 23. A system of claim 15, wherein further said mobile device comprises limited number of pre-stored diagnostic and procedures current procedural terminology (CPT) codes for billing, and automatic invoicing, and invoice templates.

24. A system of remotely accessing patient data on a mobile device and utilizing said data to remotely control an implantable stimulator providing electrical pulses to a nerve tissue, comprising:

- a) said implantable neurostimulator comprising circuitry, at least one lead adapted for providing electrical pulses to said nerve tissue, and a coil for communication;
- b) an external interface means for networking over a wide area network, and in communication with said implantable neurostimulator;
- c) a remote mobile device with means for networking over a wide area network;
- d) software applications means for said mobile device configured for:

i) communicating and exchanging data over said wide area network, ii) for remotely changing parameters of said electric pulses provided by said neurostimulator, and iii) for storing, editing, adding, downloading, and uploading said data.

5 25. A system of claim 24, wherein further said neurostimulator is utilized for providing therapy for at least one of neurological, neuropsychiatric, urological, and cardiac disorders, and intractable pain treated by spinal cord stimulation.

10 26. A system of claim 24, wherein said external interface means is adapted to be inductively coupled to said implanted neurostimulator.

15 27. A system of claim 24, wherein said implantable nerve stimulation device further comprises an implanted stimulus receiver module and an implanted pulse generation module (IPG).

28. A system of claim 24, wherein said external interface means further comprises an external stimulator.

29. A system of claim 24, wherein further said remote mobile device is at least one of a modified PDA/cell phone, a desk-top computer, a lap-top computer, an internet ready pocket PC, an internet ready personal digital assistant, and the like.

30. A system of claim 24, wherein said data exchange is exchange of data for nerve stimulation patients, comprising patient history, nerve stimulation parameters, stimulation schedules, patient reports, patient contact information, patient insurance information, and like.

31. A system of claim 24, wherein said mobile device further comprises limited number of pre-stored diagnostic and procedures current procedural terminology (CPT) codes for billing, automatic invoicing, and invoicing templates.